ABSTRACT OF THE DISCLOSURE

In an electric-discharge machining apparatus for controlling a machining axis so that an average voltage Vg during a predetermined sampling time Ts agrees with a servo standard voltage SV, the apparatus includes: an electric power supplier 9 for supplying electric power between electrodes of a tool electrode 8 and a target W to be machined; an electric-discharge detector 13 for detecting the waveform of electric discharge generating between the electrodes based on the electric power supplied by the electric power supplier 9; an electric-discharge generation counter 14 for counting in response to the waveform an electric-discharge generation count Nd during the predetermined sampling time Ts; a calculator 12 for calculating an estimation average voltage Vgs between the electrodes based on the electric-discharge generation count Nd; and an electrode-position controller 10 for controlling the machining axis so that the estimation average voltage Vgs calculated by the calculator 12 agrees with the servo standard voltage SV during the sampling time Ts.